

ABSTRACT OF THE DISCLOSURE

[0181] A method is disclosed for automatically provisioning network devices for use with virtual circuit networks, such as frame relay and ATM networks. The device receives a list of identifiers corresponding to virtual circuits from a configuration interface for the virtual circuit network. The device iteratively applies each identifier from the list to individual instances of interface configuration commands and attempts to provide connectivity with a remote device. Once a configuration command is applied, the device will obtain an IP address for a device terminating the virtual circuit corresponding to the identifier selected from the list; and determines an IP address for itself. The device tests the virtual circuit for connectivity with the remote device. If the device is able to determine that the virtual circuit corresponding to the selected identifier provides connectivity to the remote device, then that virtual circuit is used to connect to the remote device.